



# OTVARC Oscillator

The Oregon Tualatin Valley Amateur Radio Club Newsletter

June 1996 Issue

Home Page : [WWW.OTVARC.BEAVERTON.OR.US/OTVARC](http://WWW.OTVARC.BEAVERTON.OR.US/OTVARC)

## OTVARC PRES FOR JUNE Newsletter

As I write this, SEAPAC is rapidly approaching on June 1 & 2. As you read this, it is either here or you missed it. If it is here and you are at SEAPAC, go volunteer for Security or Registration!! If you missed it, you can always help at SEAPAC next year (June 14 & 15 -so we don't conflict with the Rose Parade).

Now its time for Field Day (June 22 & 23). Our site is Willamette Mission Park just South of the Wheatland Ferry on the East side of the river. Call Carl Clawson WS7L (629-5796) if you can help, want to operate one of the stations or just want to camp out for the night. Everyone, licensed or not is welcome to come by!!!

More recognition of the help hams provided to the Vernonia area during the floods. The May issue of 73 magazine has a great article on page 30. Sandy K7OOZ is the author. Our newsletter editor Bill N7VZF receives raves for his net control capabilities and is featured in a photo. Wes K7WWG is also mentioned.

OTVARC is now on the World Wide Web. Our address is:

[HTTP://WWW.OTVARC.BEAVERTON.OR.US/OTVARC](http://WWW.OTVARC.BEAVERTON.OR.US/OTVARC). Membership forms, SEAPAC information, and current newsletter text can be found here. Thanks to Easystreet for providing our site. CHECK IT OUT!!!

Van KE7BB is recuperating at home with a broken ankle. He tried skateboarding down the stairs; only without the skateboard! His computer felt sympathetic and broke too.

Finally, at loooong last. The FCC is really going to issue vanity call signs. Gate 1 of the program will open May 31. Chuck KI7CL will submit the necessary paperwork to apply for the old club call of W7OTV. We'll keep you posted on the outcome.

The May meeting program was on repeaters and was well done by Wes K7WWG. He had a

video of the KGON repeater site; including shots inside the building. There were some still photos of the Goat Mountain (146.960-) site. He (with Neil's WA6KLA help) also brought along two working repeaters, repeater test gear and a typical repeater owners tool kit. Lots of good questions and answers. When asked, "How many repeaters do you and Wayne have operating?" Wes really wasn't sure.

After the program we had the usual prize drawing; everything from a SWR/Power meter (good to 150 MHz) to a Callbook. Bud KC7PS won again but; for a change, Alan KB7POR didn't win. I think that breaks his string at 4 in a row. (Yes, Alan I really did put your tickets back in.)

Alan has also been working hard to get an ARES group going in lake Oswego. The Fire Dept. and Emergency Operations Center for Lake Oswego are extremely interested in getting Hams involved in their Community Emergency Response Teams (C.E.R.T.) program. In May they helped sponsor an information meeting for all the Hams living in Lake Oswego. At least 15 Hams showed up. The program is off and rolling. The city may be buying some Ham equipment to install at the EOC and Fire Stations. If you are interested in getting involved call Alan at 636-2237.

I guess that empties my brain of thoughts for this month. If you have any thoughts to contribute to the newsletter, Bill N7VZF is now on the Internet at [billm@datacomm.com](mailto:billm@datacomm.com). Send him all the "gud" stuff you can find for the newsletter.

AAAAAAAAdh

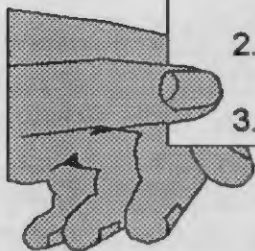
## June Guest Speaker

June's Guest Speaker will be Carl Clawson - WS7L who will regale us with his multi-media presentation on previous Field Day Adventures.

Be sure to attend the June Meeting  
Wed - June 12 @ 7:00 PM - Beaverton Elks

### Minutes of Board Meeting 4-24-96

1. Those in attendance: Neil McKie, Al Berg, Chuck Mickley, Alan Chinnock, Brad Beach.
2. Treasurer's report was distributed.
3. No business was conducted.



### 1996 Calendar of Interesting Things

May 31	Friday	SEAPAC
Jun 1	Saturday	SEAPAC
Jun 2	Sunday	SEAPAC
Jun 19	Wednesday	Project Night - Build Your Own Kit
Jun 21-23		Travellers Field Day
Jun 22	Saturday	Field Day
Jun 23	Sunday	Field Day
Jul 4	Thursday	Fourth of July
Jul 19-21		Travellers Skamokawa, WA Roger & Marvel Noyes
Jul 27-28		MS150 Bike Ride
Jul 31	Wednesday	Fifth Wednesday Radio Contest
Aug 2-4	Weekend	WIMU 96, Park City Utah
Aug 16-18		Travellers A Fun Place Rick & Joan Schouweiler
Aug 16-18		MS Border to Border Bike Ride
Sep 11	Wednesday	September Meeting - Flea Market (see Apr27)
Sep 15	Sunday	Walk for the Cure
Sep 20-22		Travellers Randle, WA Chuck & Betty Mickley
Sep 28	Saturday	Fall National Exam Day
Sep 29	Sunday	Fall National Exam Day
Oct 18-20		Travellers Somewhere Bob & Jo Orr
Oct 30	Wednesday	Fifth Wednesday Radio Contest
Nov 15-17		Travellers Depoe Bay Tom & Barb Bailey
Nov 29	Friday	Santa Claus Parade
This Year		NWDX Convention in Portland

If you would like an event included in the calendar please call Alan Chinnock KB7POR at 636-2237. If it is in reasonably good taste I will include it.

### Editor's Notes:

Just as a reminder from your Editor. The deadline for articles is the 15th of the month. If the articles, letters etc. arrive on my desk (or computer if sent via Packet or e-mail) by the 15th, the material will be included in the next month's publication. I will accept articles up to the 20th but there is no guarantee that they will make the next issue.

I am still looking for story ideas, articles, material, etc. Let me know if you have anything you would like to get included. Thanks: - Packet ad: N7VZF@K7IQI.ORG.NOAM - e-Mail - billm@datacomm.com

# Field Day 1996

by Carl WS7L

Time has flown, and it's nearly **Field Day** time again. This year we'll be operating from **Willamette Mission State Park**, June 21-23. It's about a forty minute drive from Beaverton. Take I-5 south to the Brooks exit (between Woodburn and Salem). Proceed west until you come to a stop sign at a T. This is Wheatland Rd. Turn right, and the park is a few miles down the road on the left.

If there is an attendant at the booth, let them know you are with OTVARC. They will count heads and use that to figure our fee. Once in the park proceed straight for about a half mile, then turn right and head about 1/4 mile to **Group Area B**. If you arrive after sundown, the gate will be closed but unlocked, just come on in. I'll try to have someone monitoring **147.42** simplex for talk-in. The camp is normally day-use only, but they do handle group camping and allow RV's with group camps. I have reserved it for Friday and Saturday nights, June 21 and 22, so show up Friday night if you like and camp until Sunday.

We plan to operate two stations under the club call KC7KJM plus a novice/tech station under a call to be decided. One station can operate in the club trailer, and two under the picnic shelter.

So what do we still need?

- ☛ two HF transceivers, one for the novice/tech station and one for the CW station.
- ☛ an antenna for the CW station. A vertical multi-band antenna would be a good choice if anyone has one available.
- ☛ Several lamps for light at night would be useful. Since we have 110V available in the shelter, electric lamps will be fine.
- ☛ We need an extra 12-V deep-cycle battery or two.
- ☛ And mostly, we need operators. Especially for the critical night shift when most people like to be asleep. If you're a night owl, please be there Saturday night!

As in previous years, we'll pull the club trailer in sometime Friday. We will have a dinner Friday evening for the campers that are there that night. About 8:00 a.m. Saturday, we'll start setup. Operation will be from 11:00 a.m. Saturday until 11:00 a.m. Sunday. There will be three meals Saturday and breakfast on Sunday. How fancy the food is depends on how much help I can line up ahead of time. So if you can participate either in the advance planning or in actual preparation and serving, give me a call. Or, if you want to manage radio operations then I can take a larger role in the food business.

I hope to see a lot of you there. This is a great site with plenty of room for the kids to run, hiking trails, horseshoe pits, etc. Bring your tent/RV, the kids, grandkids, and whoever and let's have some fun!

73, Carl (629-5796)

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## Project Night – Kit Building Alan Chinnock KB7POR

Our next project night is scheduled for June 19. This evening will be spent building kits. I would like to see a number of first time builders assisted by the experts. At the last meeting there were a number of catalogs available for review. Each person is expected to purchase their own kit for the event. We will all pitch in to provide tools and knowledge. To date I have heard no interest expressed in this event outside the organizers. If I do not hear from people soon I will think they do not care.



## From the Secretary Alan Chinnock KB7POR

As our president Jim KB7AAAADH said at the last meeting it is time for several of you to volunteer to be the nominating committee. I know the year is only half over, but this is an important job. Things go a lot smoother at election time if we do not have last minute emergency nominations as we did for my job last year. If you would like to have a large say in who runs the club in 1997 please call Jim 245-2518 and become part of the nominating committee.

Now for the rest of you in the club. Since you are not going to be the nominators that must mean you will be the nominees. I think that it is only fair that you should know what goes on inside the job of each of the elected officers of the club. This month we will start out with the President and Vice-President. Next month we will cover the Secretary, Treasurer and Trustees.

### First the President. The job description according to the Constitution:

The President shall preside at the meetings of this club, conduct the same according to the rules adopted. He/she shall enforce the due observance of the Constitution and the By-Laws; decide all questions of order as by Robert's Rules of Order, however such rules shall be suspended by a majority vote of the members present. He/she shall perform such other duties as the laws or rules of the organization may require.

So much for the legalities. Yes the Prez stands up and runs the board and general meetings of the club. He also keep track of the pulse of the entire club, seeking out others to assist in getting specific tasks done. He does not run the club, that is up to the rest of us to get things done. Anyone who is interested in the well-being of the club will do well as a President in it. Oh Yes, you are expected to write an article about what is going on in the club, or whatever you want to write about.

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Orders Only Please 1-800-835-4895

### The Vice-President according to the Constitution:

The Vice-President shall assume all the duties of the President in the absence of the latter. He/she shall perform other duties as the laws and rules of the organization may require and also such duties as may be designated by the President.

This one has a buried task in the reality of the job. One of those "Other Duties" is securing programs for the general membership meeting. Not to fear though, there are a lot of resource available to help with this. Other members have ideas, business, industry, and government can help, ARRL can help. All you need are 12 ideas and you are done for the year. Not a bad job. (At least if the Prez stays around for the year and you do not have to pick up that job as well.) Yes the VP gets to put articles in the newsletter warning us about the up coming programs.

As you can see so far these jobs are not so bad. Most anyone can perform the tasks required and help OTVARC continue as the healthy active club that we all want to see. Remember you have two choices, you can be a Nominator or a Nominee, the choice is yours

See you next month with the other three job openings.

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### Speaking of Club Positions:

#### Position Available

**Contest Manager** OTVARC has an opening for a Contest Manager. Duties include publicizing the Fifth Wednesday Radio Contest, collecting and judging the entries, and announcing the winners. Qualifications for the job include a desire to assist your fellow Hams in having fun with their radios. Interested parties should respond to Jim Schaeffer 245-2518 or Alan Chinnock 636-2237.

### EQUIPMENT LOAN PROGRAM

If you don't operate on HF because you don't have the equipment, OTVARC may have the answer for you. Some used but very usable equipment has been donated to OTVARC for the purpose of lending it to members who do not have their own equipment. There is no cost to OTVARC members.

Right now, we have a Heath HW-101 looking for a good temporary home. This is a 100 watt 80 through 10 meter SSB and CW transceiver. We also have a few bucks in a fund to buy accessories such as an antenna tuner to lend with the transceiver if you need one of those. This is a great way to see if you like the world of HF without making a large investment in equipment. A typical equipment loan would be for a period of six months at which time the loan would be reviewed and possibly extended if the equipment is actually being put to good use by the borrower. Otherwise, we would recall the equipment and look for another person who wants to use it.

If you have some equipment that is surplus to you and you think it could be loaned to others through this program, please contact me and we will discuss it. You will not necessarily have to give up your ownership of the equipment since you will not have to actually donate it to OTVARC.

Contact Stan Griffiths, W7NI at 649-0837 if you are interested in this program.

### Project Nite by Chuck Mickley

The next Project Nite is scheduled for Wednesday, June 19th. It will be the first of "I built it myself" project(s) of your own choice. There will be an opportunity at this session to work with some sample circuit boards to practice your soldering technique and to review component identification procedures, before trying some "real" kit construction. If you have little or no kit building experience, this is THE session for you to attend! Also, you will want to browse through the kit catalog notebook, available at the club meetings and at Project Nite, to find that kit that you never knew existed, and can't possibly live without!

Sessions are currently scheduled for the small Training Room at the Tualatin Valley Fire & Rescue Headquarters building, located at 20665 SW Blanton, in Aloha, between 198th and 209th, just South of TV Highway, southwest of Intel and east of the fire station located at 209th and Blanton.

All sessions will be from 7PM to 9PM.

If you have any tools or test equipment that you would like to donate to a worthy cause, now is the time to get them to your Project Nite leaders.

### HAM ONLY LINK TO SINKING BOAT

Bob Karon, AA6RK of Encino California heard a frantic "Mayday" call coming from a sinking vessel thousands of miles away. Using his HF radio equipment, Karon contacted the yacht that was sinking in the south Caribbean Sea with four people aboard and a storm approaching.

The Cambria, a 44 ft. Canadian vessel was grounded on a reef about 150 miles SW of Jamaica with a hole in it and taking on water. The skipper said the boat would sink within an hour. And, to make matters worse, a storm was approaching. The grounding caused the vessel to be positioned on its side on the reef which made communications extremely difficult. It was a bad situation.

Karon telephoned the Coast Guard in Los Angeles, and was transferred to its Miami station. AA6RK became the only link between the sinking vessel and potential rescuers. The Coast Guard determined that its closest rescue team was 2 1/2 hours away. But a cargo freighter was about 25 miles away and could reach the Cambria in an hour and a half, which might be too late. Fortunately, it was not.

Shallow waters prevented the ship from reaching the grounded yacht, but the freighter's crew sent a lifeboat and rescued the skipper and passengers just as the storm arrived. The freighter took them to Aruba.

Bob Karon received a letter of commendation from the Coast Guard. "Your professional and humanitarian actions are heartily commended and demonstrate the "Finest traditions of assisting mariners in distress," said Coast Guard Captain, Robert Gravino in his letter to Karon.

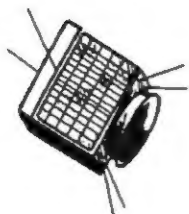
*Reprinted from May - '96 TEARS Newsletter*



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## From: Satellite Station - W7KJZ

Reliable sources indicate that the launch date the SUNSAT satellite has been set for 06-Mar-97. SUNSAT is an Amateur satellite sponsored by the University of Stellenbosch, in South Africa.



### \* MIR \*

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Mir's orbital path is closely following the Earth's terminator (area between light and dark) and is currently visible, at least across North America, after sunset.

### \* NEW FODTRACK ON KO-25 \*

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Manfred, XQ2FOD, has announced the release of the latest version of his FodTrack satellite tracking program. FodTrack controls the Yaesu G5400 and G5600 AZ/EL satellite antenna rotators through simple hardware interfaces. The new version also includes improved control of ICOM transceivers, speeds up control of Yaesu transceivers, adds frequency parking for ICOM and Kenwood (Yaesu doesn't need this) transceivers, and fixes a division-by-zero bug.

### \* Phase 3-D projects \*

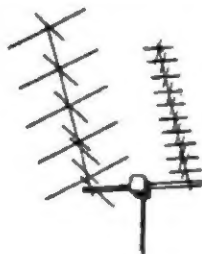
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As it now stands, Phase 3-D is anywhere from 8 to 12 months away. The satellite is being assembled and tested at a special facility set up by AMSAT in Orlando, Florida. (See "Phase 3-D Update," QST, Apr 1996, p 93).

The ARRL is among the Phase 3-D project's six major financial contributors. The others are the Deutscher Amateur Radio Club (DARC), the German Ministry of Science and Technology, AMSAT-DL, AMSAT-UK and AMSAT-NA.

In all, 14 countries are participating in building Phase 3-D. A recent addition, France, recently delivered two L-band antenna reflectors. Also arriving recently, at the Phase 3-D Integration Laboratory in Orlando, Florida, were the completed flight-ready solar panels from Germany, one of the X-band horns from Finland and the two specific bearing structures (SBSs) manufactured in Utah. The flight main battery and the X-band traveling wave tube power amplifier (TWTA) are in Germany awaiting shipment.

The Phase 3-D organizations which have acted as the steering group have been voted in at the The other organizations Ministry of Science and Technology and the satellite is in orbit and policies that should be



Program Council, is currently made up of the six so far made major financial contributions to the Project. It is for the Project. ARRL is the most recent member, having Council meeting held in Marburg Germany February 27th. currently comprising the Council are, DARC, the German technology, AMSAT-DL, AMSAT-UK and AMSAT-NA. Once operating, the Program Council is to determine operating followed.



### \*Upgraded WISP files\*

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Two upgraded WISP files have been uploaded to KO-23 and to the amsat ftp site. They are MSPE version 0.99j and PROCMAIL 0.95. The files are named MSPE0.99j.ZIP and PMAIL095.ZIP. They are on the ftp site now. They will be uploaded to KO-23 on the next few passes. These files include capability for Satgate use of the new filetype 18. They are for use with Windows 3.1. Since Roy, W0SL, is beta testing Windows 95 versions, he has not done any testing of these files. They have been tested extensively by G8TZJ however. As with any upgrade, always save your older versions until you are completely satisfied with the new ones.

These versions may contain other minor changes as well so recheck the setup on each of them to be sure you have the options set as you want them.

Satellite - Continued Page 9



## INTRODUCTION TO PACKET RADIO - Part 13

by Larry Kenney, WB9LOZ

In this part of the series we'll take a look at many of the TNC commands available to you that we haven't covered in previous articles. We will be discussing the commands used in the TAPR TNC2 and TNC2 clones. You might find that some of the commands are not available in your particular TNC or that they're used in a slightly different manner than the one explained here. Please refer to your owner's operating manual for specific details on how to use these commands in your TNC.

**8BITCONV:** This command enables the transmission of 8-bit data in converse mode. Used with **AWLEN** - see below. For normal packet operation, such as keyboard to keyboard transmissions, use of bulletin boards, and transmission of ASCII files, **8BITCONV** should be OFF. If you need to transmit 8-bit data, set **8BITCONV ON** and set **AWLEN** to 8. Make sure that the TNC at the receiving end is also set up this way. This procedure is normally used for transmission of executable files or a special non-ASCII data set.

**AWLEN:** This parameter defines the word length used by the serial input/output port of your TNC. For normal packet operation, as described above, **AWLEN** should be set to 7. Set to 8 only if you're going to send 8-bit data.

**AX25L2V2:** This command determines which level of AX.25 protocol you're going to use. If OFF, the TNC will use AX.25 Level 2, Version 1.0. If ON, the TNC will use AX.25 Level 2, Version 2.0. Note: Some early TNCs will not digipeat Version 2.0 packets. With **AX25L2V2 OFF**, if your TNC sends a packet and the packet doesn't get acknowledged the first time it was sent, it will send it again and again, until an "ack" is received or the TNC retries out. With **AX25 ON**, if your TNC sends a packet and doesn't receive an "ack" the first time, it will send a poll frame to see if the other TNC received the packet. If yes, then it would continue, if not then it would send the last packet again. The advantage here is that short poll frames are sent, rather than long-packets containing data. This can greatly reduce channel congestion. For VHF/UHF operation, it is almost essential that every TNC have **AX25L2V2 ON**. Many operators have suggested that Version 2.0 NOT be used on the HF bands as it tends to clutter the frequency with poll frames. See the **CHECK** command below for related information.

**BEACON:** Used with **EVERY** or **AFTER** to enable beacon transmissions. **BEACON EVERY n** - send a beacon at regular intervals specified by n. **BEACON AFTER n** - send a beacon once after a time interval specified by n having no packet activity. n = 0 to 250 - specifies beacon timing in ten second intervals.

1 = 10 seconds, 2 = 20 seconds, 30 = 300 seconds or 5 minutes, 180 = 1800 seconds or 30 minutes, etc. For example, if you set **BEACON EVERY 180 (B E 180)**, the TNC will transmit a beacon every 30 minutes. If you set **BEACON AFTER 180 (B A 180)**, the TNC will transmit a beacon after it hears no activity on the frequency for 30 minutes. **B E 0** will turn the beacon off. The text of the beacon is specified by **BTEXT** and can contain up to 120 characters. The path used for the beacon transmission is specified by the **UNPROTO** command. **YOU SHOULD USE BEACONS INTELLIGENTLY!** Beacons are often a point of controversy in the packet community because they tend to clutter the frequency if used too frequently. You should keep your beacons short and infrequent, and they should only be used for meaningful data. Bulletin boards use the beacon for advising the community of who has mail waiting for them, clubs use beacons for meeting announcements, beacons are used for weather warnings, etc.

**CHECK n** Sets a timeout value for a packet connection. Operation depends on the setting of **AX25L2V2**. The value of **CHECK (n)** determines the timing. Value may be 0 to 250. Check set to 0 disables the command. If a connection between your station and another exists and the other station seems to "disappear" due to changing propagation or loss of an intermediate digipeater, your TNC could remain in the connected state indefinitely. If the **CHECK** command is set to a value other than 0, the TNC will attempt to recover. The setting of **AX25L2V2** will determine what action is taken. If **AX25L2V2** is ON, the TNC will send a "check packet" to verify the presence of the other station if no packets have been heard for  $n * 10$  seconds. ( $n = 1 = 10$  seconds,  $n = 5 = 50$  seconds,  $n = 30 = 5$  minutes, etc.) If a response is received, the connection will remain. If no response is received, the TNC will begin the disconnect sequence, just as if the **DISCONNECT** command had been sent. If **AX25L2V2** is OFF, after no packets are heard for  $n * 10$  seconds, the TNC will not send a check packet, but will begin the disconnect sequence.

**CMSG** Enables the automatic sending of a connect message whenever a station connects to your TNC. If **CMSG** is ON, the TNC will send the message contained in **CTEXT** as the first packet of the connection. **CTEXT** can contain up to 120 characters. This feature is often used when the station is on but the operator is not present. The connect message is used to advise the other station of that fact, and often says to leave a message in the TNC buffer. If **CMSG** is off, the text message is not transmitted.

See "Packet" - page 9

## Field Day Food

The OTVARC TRAVELERS RV group have volunteered to take care of the food duties for our biggie outing of the year. We will have a hot dog roast on Friday evening and on Saturday night a full fledged knock down drag-out bout that will put you over your diet limitations. Free TUMS? Of course!! Nothing is free! Right? Wellllll. Sometimes. The weenie roast on Friday night is FREE. Saturday night din-din will cost a whopping \$2.00 per person and \$1.00 for those under 12... Before you raise your hackles about actually paying for a meal be aware that it is the RV group putting on the dog and not the club. We would at least like to come out even on the cost. Fair enough?? We will furnish coffee but any other beverage is up to you! Carl, our Field Day Chairman, will probably come up with some Saturday morning sugary stuff to go along with your coffee but that is in his club budget. Neat deal huh? Now all we have to do is make sure that YOU show up and take advantage of all the efforts. Field Day is the perfect event to help you hone skills and increase your knowledge regarding HF operation and it as an excellent way to get yourself socialized with fellow club members. If you have a problem meeting people here is a chance for you to make it easy on yourself. Get out and do it. It is truly a BLAST!!!!!!! See YOU there??

### MOVED--TELL THE FCC

FCC licensees must keep their correct address on file with the FCC. You should be aware that mail to a license holder which is returned to sender marked "Addressee Unknown" is grounds for immediate revocation on an Amateur Radio license. If the address on your ticket is different than your present one, file form 610 with the FCC without delay. Mail the form to FCC, 1270 Fairfield Road Gettysburg, PA 17325. Be sure to let our club Treas. know. Don't want to miss a newsletter!!

### ADVERTISING TERMS

ALL NEW: Parts are not interchangeable with previous design.  
DESIGN SIMPLICITY: Manufacturers cost is cut to the bone.  
FOOLPROOF ADJUSTMENT: No provision for same.  
ADVANCED DESIGN: Ad writer doesn't understand.  
FIELD TESTED: No bench test equipment  
HIGH ACCURACY: All parts fit correctly.  
DIRECT SALES ONLY: Manufacturer had argument with the distributor.  
RUGGED: Too heavy to lift.  
LIGHTWEIGHT: Lighter than rugged.  
UNMATCHED: Almost as good as the competition.  
YEARS IN DEVELOPMENT: Finally got one that will work.  
BREAKTHROUGH: Figured out a way to sell it.  
DISTINCTIVE: A different color and shape than the competition.  
PROVEN PERFORMANCE: Will operate through the warranty period.

Courtesy CCARC and others.....



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AMSAT nets are also operated on HF to provide coverage of the entire world, and especially North America. These nets are much like the local nets, though they are somewhat more formal and busy. The 15m and 17m nets are inactive until propagation improves.

Net	Designation	Day	Time	Frequency
=====	=====	===	=====	=====
AMSAT	South Pacific	Sat	2200 UTC	14.282 MHz
AMSAT	International	Sun	1900 UTC	14.282 MHz
AMSAT	International	Sun	1900 UTC	21.280 MHz (inactive)
AMSAT	International	Sun	2300 UTC	18.155 MHz (inactive)
AMSAT-NA	East Coast	Tue	2100 local	3.840 MHz
AMSAT-NA	Mid-America	Tue	2100 local	3.840 MHz
AMSAT-NA	West Coast	Tue	2000 local	3.840 MHz

73 de Dick - W7KJZ @W0RLI.#NWOR.OR.USA.NOAM.ZIP97219

**Micro-Dipoles** Pete Hardiman N7DUC

Micro-Dipoles, not a new invention, certainly not my idea, but they work, I can vouch for 75, 20, 15m operation.

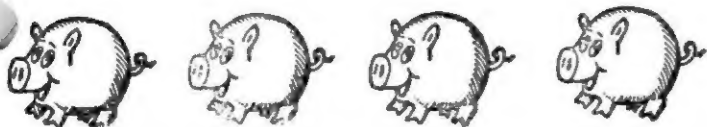
Consist of two (2) mobile whip antennas such as Pro Am PHF series for 160, 75, 40, 30, 20, 17, 15, 12, 10, and 6m, also available Lakeview Co. Ham-Stiks same basic devices. Connect together, end to end, to form a dipole, using Radio Works DAK device, and feed with coax directly or via a 1:1 Balun such as Radio Works B-1 or Spi-Ro PB-1-C.

Mounted on a pipe mast or pole, rotatable, only 16 feet long on any band, are Monobanders, a series can be mounted one above the other on a mast for each desired band, have generally very low SWR and they work.

I personally use them for MARS just above 4 MHz, also 20m and 15m; up in my shack inside the house, have antenna restrictions where I live, but work plenty of contacts and good signal strengths both ways.

Some whips are power limited like Pro Am are 250 watts, Lakeview are 500 watts, they can be used vertical mounted or horizontal with DAK mounting, and can be used mobile singly, then twin for home use as a dipole. Where space is limited, or need to "Hide" your antenna, they are ideal. There have been articles written about this kind of approach to solve such restrictions.

From Hillsboro I have worked into East Coast, down to Florida, and most points in between, also all Oregon on MARS nets, including Reno/Tahoe area and northern California.

**WORLDWIDE DISTRIBUTION**

Earl Reinoehl  
Manager  
KE7OA

11705 S.W. Pacific Hwy.  
Portland, OR 97223  
(503) 598-0555  
1-800-854-0046

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**Packet cont'd from page 7**

KISS KISS enables the TNC to act as a modem for a host computer, allowing programs such as TCP/IP, the G8BPQ Packet Switch, various BBS programs, and other programs using the Serial Link Interface Protocol (SLIP) to be run. Before turning KISS on, set the radio baud rate and terminal baud rate to the desired values. Set KISS to ON and then issue a RESTART command.

73.....Rick - KB7OGD @ KB7OGD.OR.USA.NOAM

**BORSCH ELECTRONICS**

Communications Servicing

9935 S.W. Johnson St.  
Tigard, OR. 97223

Joe Borsch W7PNS

(503) 684-5201

Ice and snow and ice  
and snow and ice and help!  
help! and plow and sand and  
plow and sand  
and slip and slide  
iiiiicccccccceeyyy  
coooooold and  
ring! ring! ring!  
and whew (maybe)  
and then...



ohmygod it's flood and  
melt and rain and water and  
water and water  
and high water!  
high water! high  
water! road  
closed! road closed! ring! ring!  
ring! help! more signs! run! hurry!  
almost done now but *oh no!* ...



rain and rain and  
rain and rain and  
rain and rain and  
rain and rain and  
rain and rain and  
rain and more rain  
AND THEN...  
EVEN MORE RAIN...

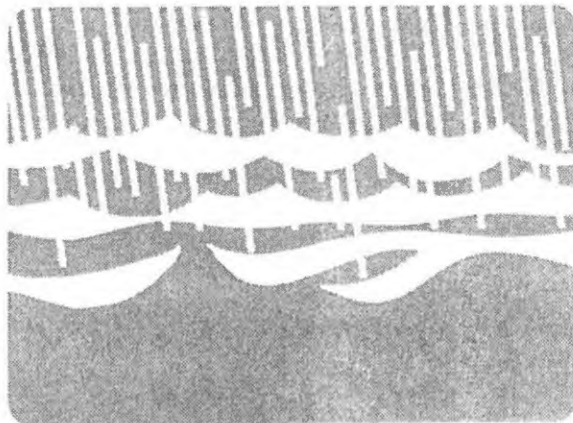
road collapsed bridge out people  
stranded help! help! help! an-  
other one gone and I can't believe  
it another one gone ring! ring!  
ring! fax and phone  
and and fax and  
phone and send  
and receive and  
send and receive  
and River Road  
down and Minter  
Bridge down and TV Highway  
down and Rood Bridge down  
and they're all down can't get  
there from here and ...



*In recognition  
of the spirit of courage,  
partnership and commitment  
demonstrated by*

**Oregon Tualatin Valley  
Amateur Radio Club**

*during the Flood of 1996*



Washington  
County  
Board of  
Commissioners

*Linda Peters*  
Linda Peters, Chair

*Kim Katsion*  
Kim Katsion, Vice-Chair

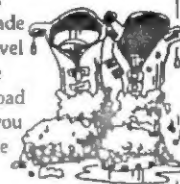
*Charles D. Cameron*  
Charles D. Cameron, County Administrator

*Kathy Christy*  
Kathy Christy, Commissioner

*Andy Duyck*  
Andy Duyck, Commissioner

*Kay Rogers*  
Kay Rogers, Commissioner

mud and wet and mud  
and slime and water water and  
more water *won't stop won't stop*  
*won't it ever stop* please clear  
the log jam! cut  
the tree! barricade  
the bridge! shovel  
the mud oh the  
mud another road  
in the canyon you  
can't believe the  
destruction



ring! ring! *ring!* and donuts and  
junk food and waaayyy too much  
coffee day and  
night and day  
and night and  
Sunday Monday  
Tuesday Wednesday  
Thursday ...  
what day is it anyway ...  
can't get home can't sleep can't  
rest can't stop ... and then ...  
... sunshine



as though nothing

had happened



Text by Elaine O'Keefe,  
Art by Ron Talaga,  
County Employees

## Washington County Says Thank You

The item above is a greatly reduced copy of a framed certificate given to the club in the name of those of you who dedicated time and effort during the great flood of 1996. Representatives of three local ham clubs were asked to attend the late afternoon buffet and award ceremonies. Many of the county agencies leaders were given a similar award. It was a very nice gesture on the counties part and a very good shot in the arm for all of us hams. Maybe next time we face a tower ordinance problem we might be taken a little more seriously! WB7SIC

## OTVARC Club Contacts

### OTVARC Executive Board

President	Jim Schaeffer	KB7ADH	245-2518
Vice President	Neil McKie	WA6KLA	649-4264
Secretary	Alan Chinnock	KB7POR	636-2237
Treasurer	Brad Beach	N7NVC	657-1781
Trustee	Wes Allen	K7WWG	649-3295
Trustee	Chuck Mickley	KI7CL	642-1284
Trustee	Janet Bell	WB7FJC	648-4147
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Stan Griffiths	W7NI	649-0837

### Other Club Contacts

ARRL Coordinator			
Bunny Hunting			
Contesting			
DX News	Rich Jones	KG7FS	645-9417
Equipment Evaluation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services			
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Mary Berg	N7TRW	640-5456
Member Badges	Carl Clawson	WS7L	629-5796
Newsletter Editor	Bill Merwin	N7VZF	644-1974
Newsletter Layout	Bill Merwin	N7VZF	644-1974
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nominating Committee	Hanford Van Ness	KE7BB	246-7975
Packet - Club BBS	Rick Braun	KB7OGD	645-1490
Project Night	Alan Chinnock	KB7POR	636-2237
	Chuck Mickley	KI7CL	642-1284
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI			
Satellites	Dick Emmel	W7KJZ	245-1928
Scholarship	Carl Clawson	WS7L	629-5796
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Randy Stimson	KZ7T	297-1175
Technical			
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training(Code)			
Training(Novice/Tech)			
Training(Upgrade)			
VHF/UHF	Alan Chinnock	KB7POR	636-2237

## OTVARC Club Information

**Purpose:** The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

**Special Service Club** OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

**Newsletter:** The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or the editorial staff.

**Correspondence:** All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

**Advertising:** Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from January through June and July through December. All ads must be paid for in advance. Rates for 1994 are as follows:

Full Page	8" X 10"	\$200 for 6 mo.
Half Page	8" X 5"	\$125 for 6 mo.
Qtr Page	4" X 5"	\$75 for 6 mo.
Bus. Card	2" X 3"	\$35 for 6 mo.

**Meetings:** We have two meetings per month. The board meeting is on the first Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

**Membership** OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for prorated dues.

**How To Join:** Simply mail the Member Application and Renewal Form along with your dues to the address above.

Internet Home Page : [WWW.EASYSTREET.COM/OTVARC](http://WWW.EASYSTREET.COM/OTVARC)

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Phone: (503) 649-0837  
FAX: (503) 591-1620



**OTVARC**

OREGON TUALATIN VALLEY A.R.C.

PO Box 5132

ALOHA, OR 97006-0132

ADDRESS CORRECTION REQUESTED

AL-  
2-  
WB7SIC  
5132

